

In the Claims

Please amend the claims as follows:

1. (Currently Amended) A microporous film manufactured by a process comprising the steps of:
 - a) molding a film with a mixed blend containing two or more [[of]] polyolefins by using a casting or film blowing;
 - b) annealing and stretching the molded film; and
 - c) treating the surface of the film by irradiation with an ion beam ~~ionizing radiation~~ either before or after pore formation.
2. (Original) A microporous film in accordance with claim 1, wherein the mixed blend comprises two or more of polyolefin mixtures having a melting point difference of over 10°C.
3. (Original) A microporous film in accordance with claim 1, wherein the mixed blend comprises a mixture in which polypropylene having a high melting point and polyethylene having a low melting point are mixed in a weight ratio ranging from 1:9 to 9:1.
4. (Currently Amended) A microporous film in accordance with claim 1, wherein the surface treatment of irradiation with ~~ionizing radiation~~ an ion beam is performed on one side or on both sides of the film.
5. (Currently Amended) A microporous film in accordance with claim 1, wherein the surface treatment by irradiation with an ion beam is performed by irradiating ~~ionizing radiation improves the hydrophilicity and/or mechanical properties of the film by irradiating energized ion particles on the film under a vacuum.~~

6. (Currently Amended) A microporous film in accordance with claim 1, wherein the surface treatment by irradiation with an ion beam is performed by irradiating energized ion particles on the film while infusing ~~ionizing radiation improves the hydrophilicity and/or mechanical properties of the film by the infusion of a reactive gas under a vacuum state by means of irradiating energized ion particles on the film.~~

7. (Currently Amended) A microporous film in accordance with claim 5 or claim 6, wherein one or more of ion particles are selected from a group consisting of ~~electrons~~, hydrogen, oxygen, helium, fluorine, neon, argon, krypton, air, and N₂O.

8. (Original) A microporous film in accordance with claim 6, wherein one or more of reactive gases are selected from a group consisting of hydrogen, oxygen, nitrogen, ammonia, carbon monoxide, carbon dioxide, carbon tetrafluoride, methane, and N₂O.

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled) A lithium ion secondary battery separator or alkali secondary battery separator comprising a microporous film manufactured in accordance with claim 10.

20. (Previously Presented): A separator in a lithium ion secondary battery or alkali secondary battery comprising the microporous film according to claim 1.